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(54) Title: **TOPOLOGICAL VOICEPRINTS FOR SPEAKER IDENTIFICATION**

**Known Speaker's
Voice Mold in Data Bank**

	2		
	0	0	
	2		1
1			

**Unknown Speaker's
Voice Mold Obtained from Voice**

2	X	-1	0
0	X	0	-2
1	2	0	1
X	2	0	1

(57) Abstract: The speaker recognition techniques of this application use a topological description of his/her voice spectral properties in order to use it as a biometric characterization for the speaker. Distinctly different from computing distances between spectral curves obtained from voices of different speakers in various spectral analysis methods, such topological features provide a one-to-one correspondence between a subject and a mold represented by a set of rational numbers.

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